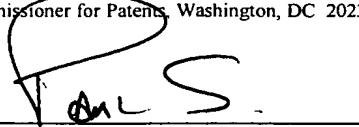


I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail, in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on the date shown below.

Dated: March 21, 2003

Signature: 

Paul B. Stephens

2877
#1
4/29/03
Docket No.: 30203/37899
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

R. Frick

Group Art Unit: 2877

Application No.: 09/996,143

Filed: November 28, 2001

Examiner: To be assigned

For: Optical Sensor for Measuring Physical and
Material Properties

SUBMISSION OF FORMAL DRAWINGS

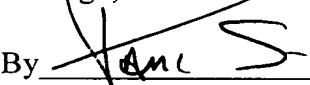
Commissioner for Patents
Washington, DC 20231

Dear Sir:

Submitted herewith is one set (thirteen sheets, eighteen figures) of formal drawings for filing in the above-identified patent application. Kindly substitute the enclosed formal drawings for the informal drawings previously submitted.

Dated: March 21, 2003

Respectfully submitted,
MARSHALL, GERSTEIN & BORUN
6300 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606

By 
Paul B. Stephens

Registration No.: 47,970
(312) 474-6300
Attorneys for Applicant

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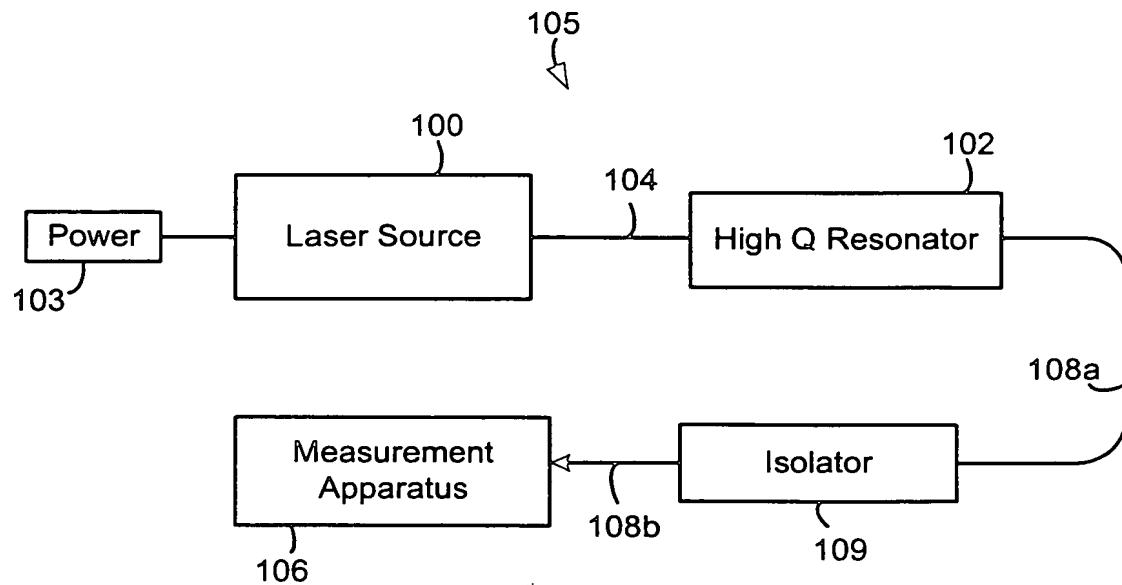


FIG. 1

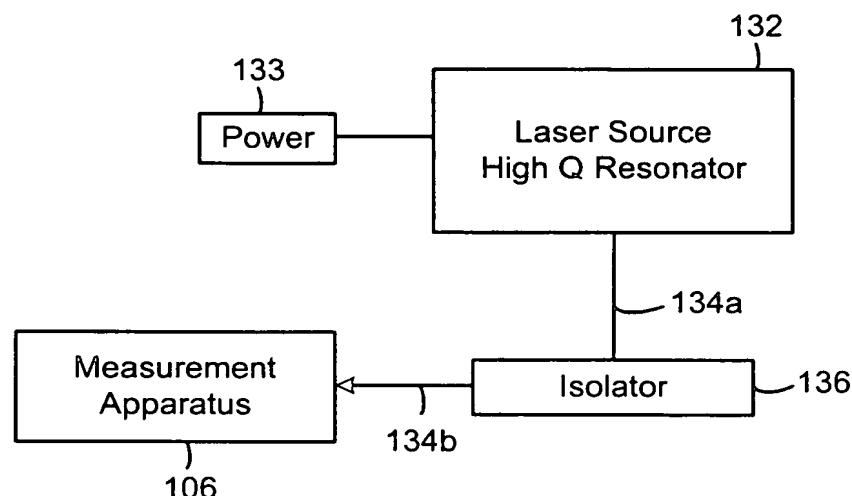


FIG. 2



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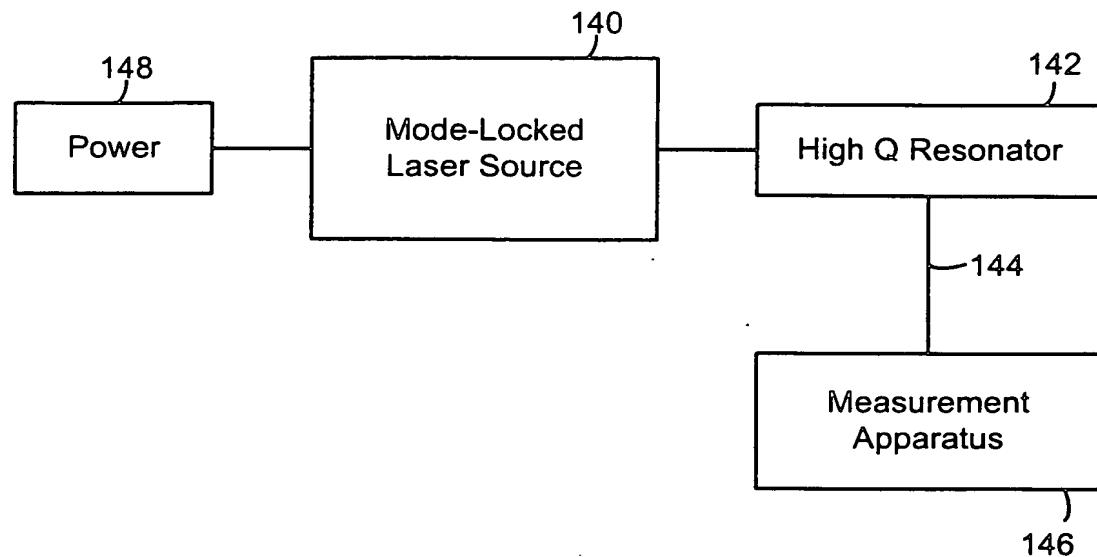


FIG. 3A

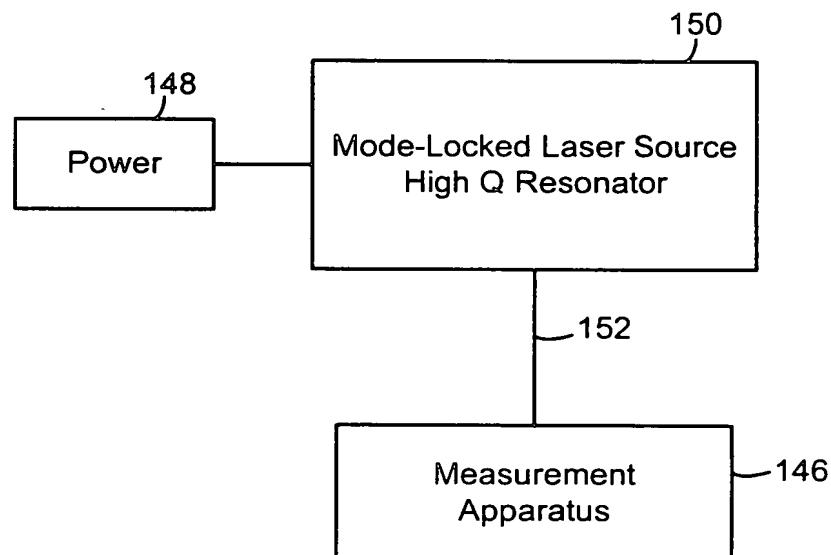


FIG. 3B



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Title: Optical Sensor for Measuring Physical and
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Inventor: R. Frick
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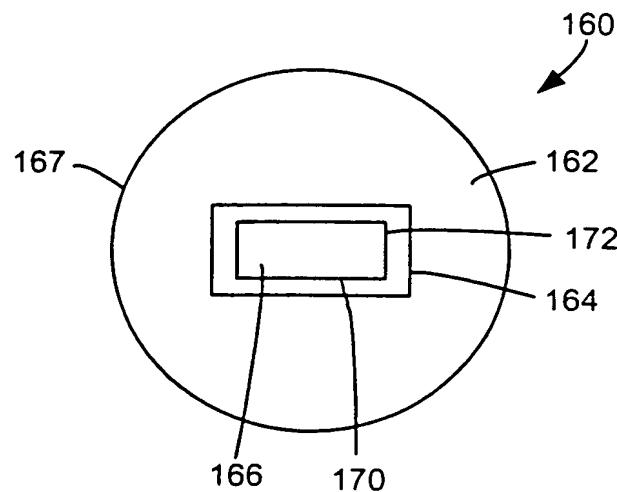


FIG. 4

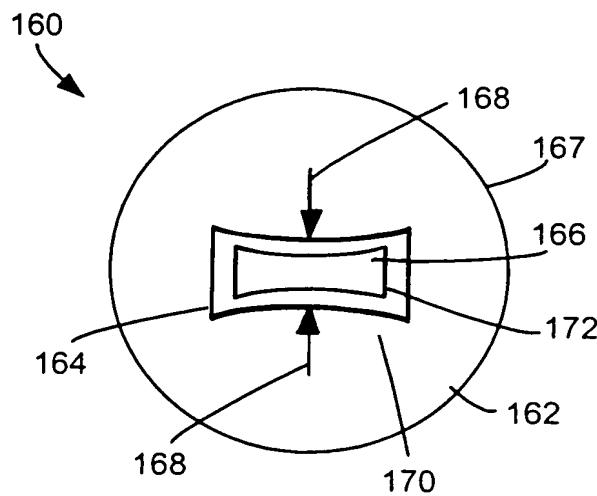


FIG. 5



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Material Properties
Inventor: R. Frick
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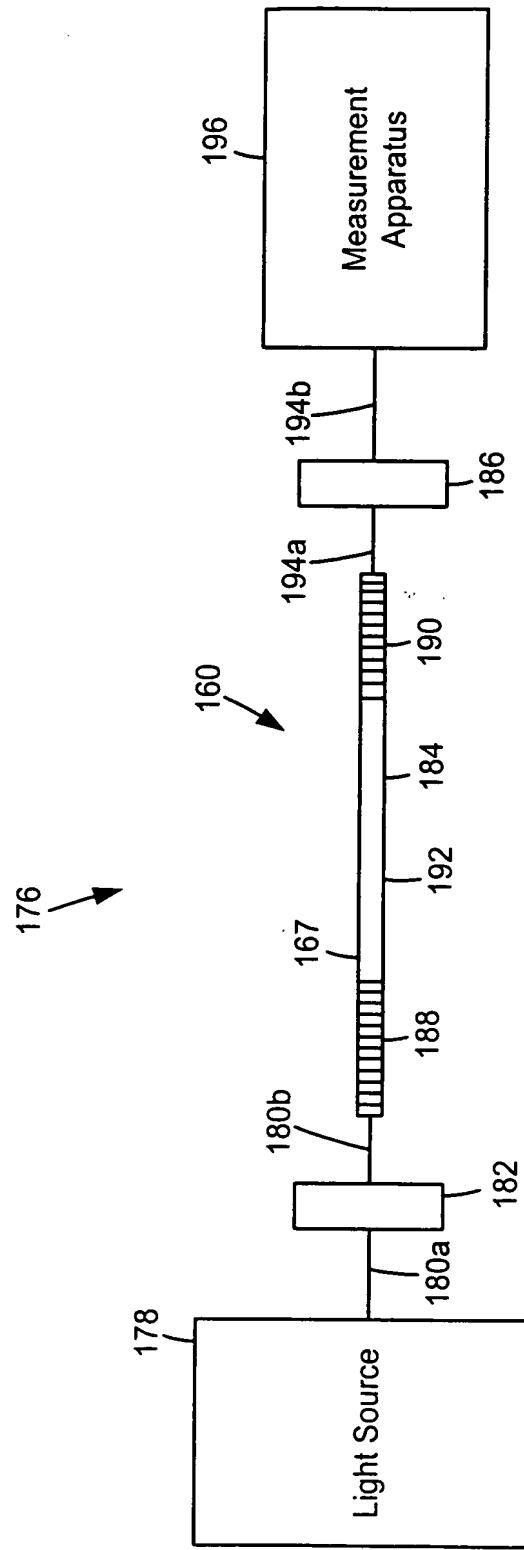


FIG. 6



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Material Properties
Inventor: R. Frick
Figures 7 and 8.
Sheet 5 of 13

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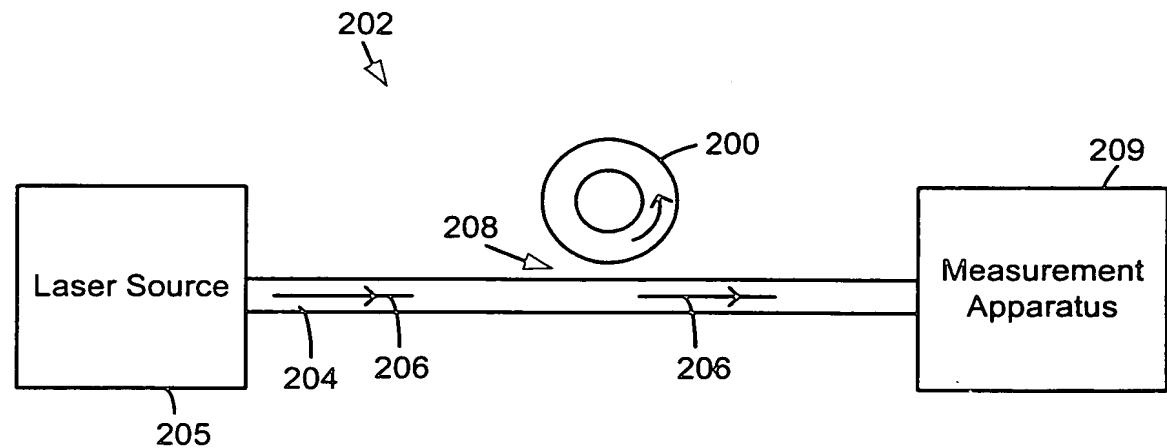


FIG. 7

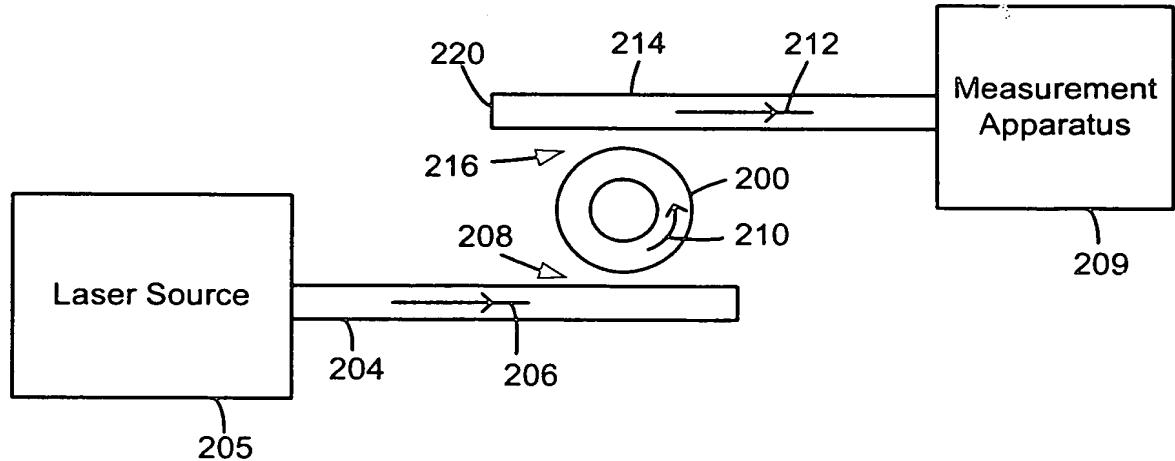


FIG. 8



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Material Properties
Inventor: R. Frick
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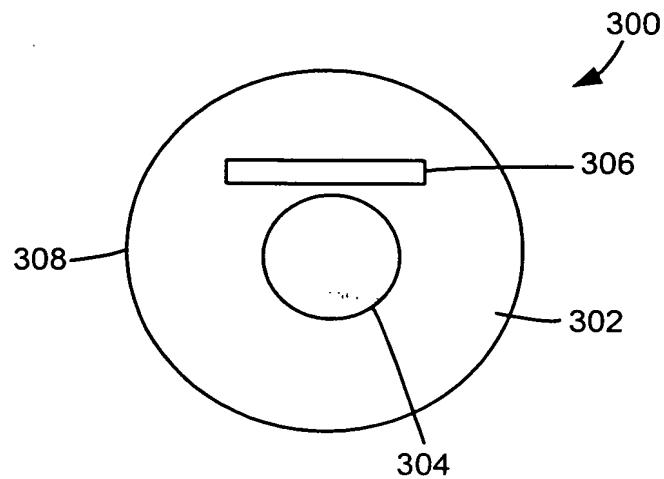


FIG.9

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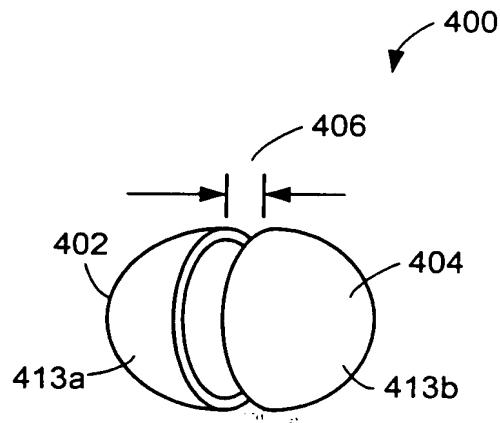


FIG. 10



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Inventor: R. Frick
Figures 11 and 12
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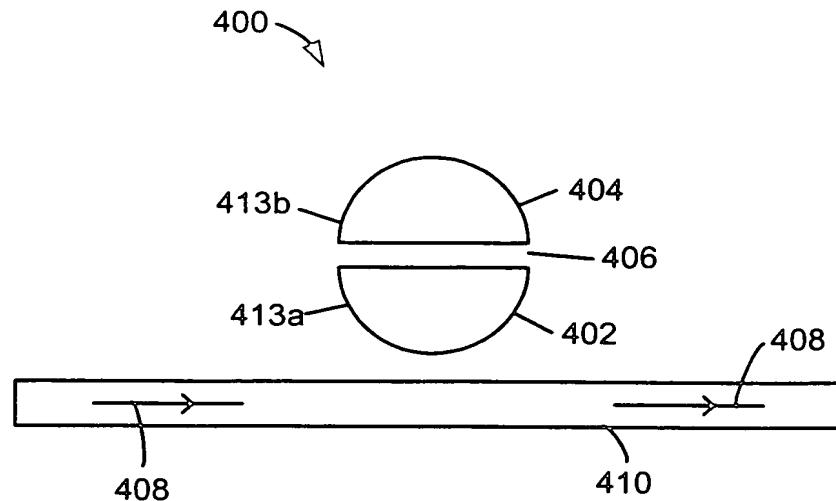


FIG. 11

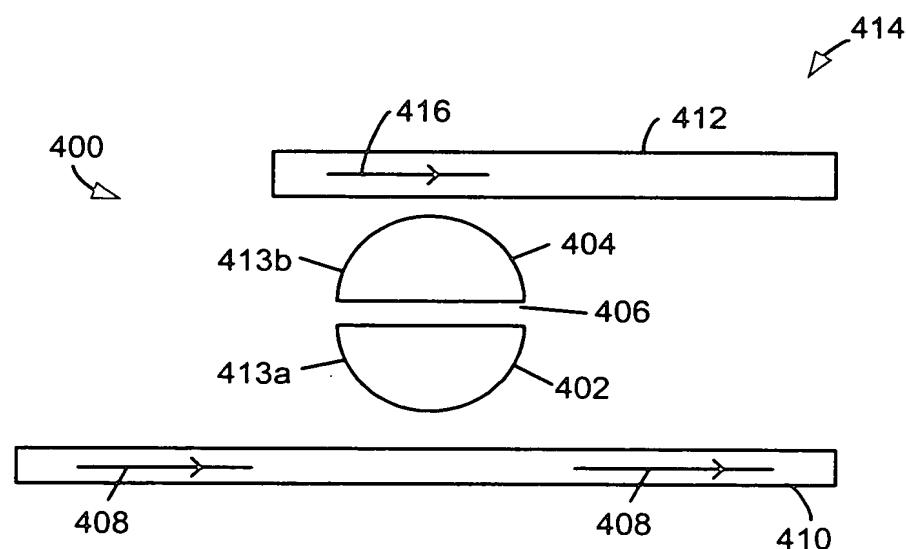


FIG. 12



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Inventor: R. Frick
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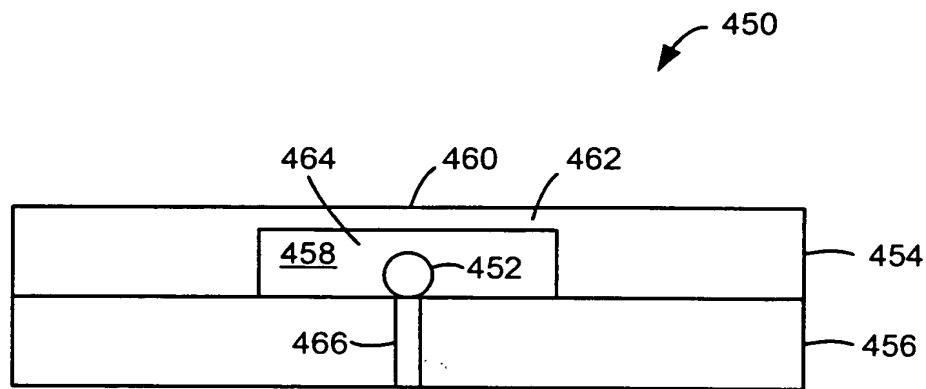


FIG. 13



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Inventor: R. Frick
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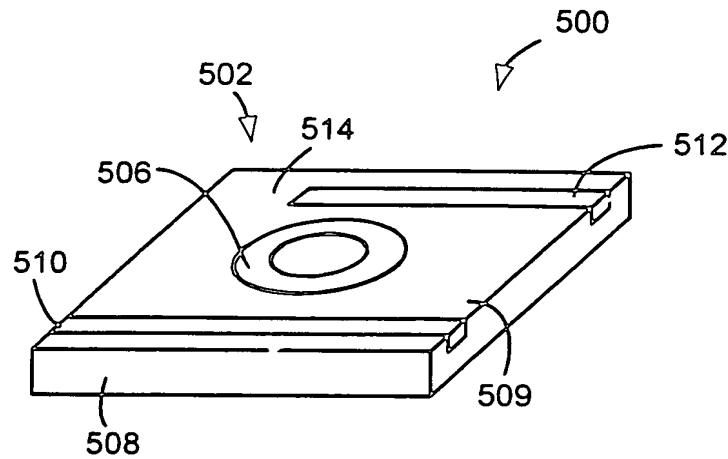


FIG. 14A

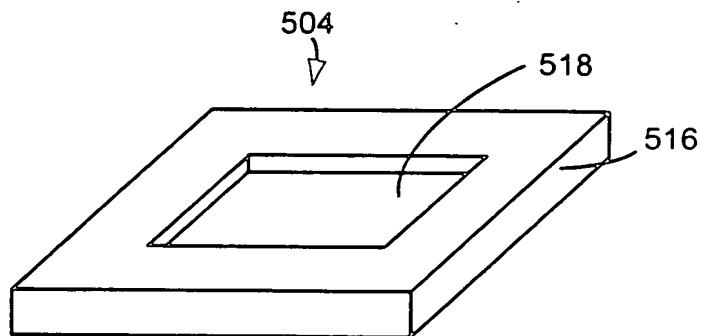


FIG. 14B



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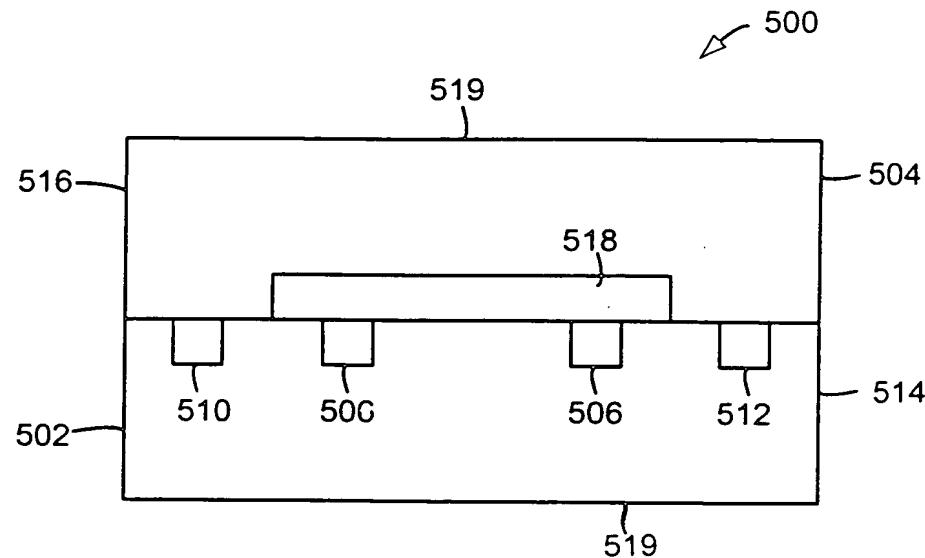


FIG. 15

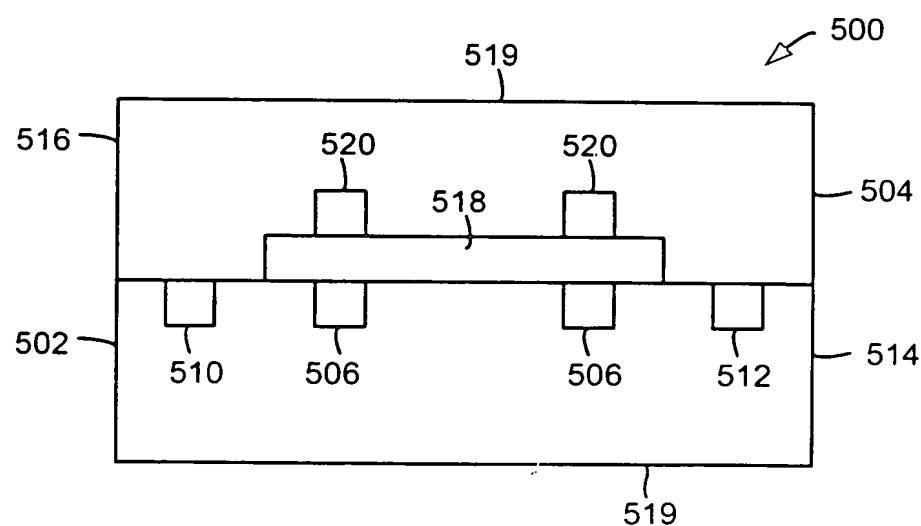


FIG. 16



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Title: Optical Sensor for Measuring Mechanical and
Material Properties
Inventor: R. Frick
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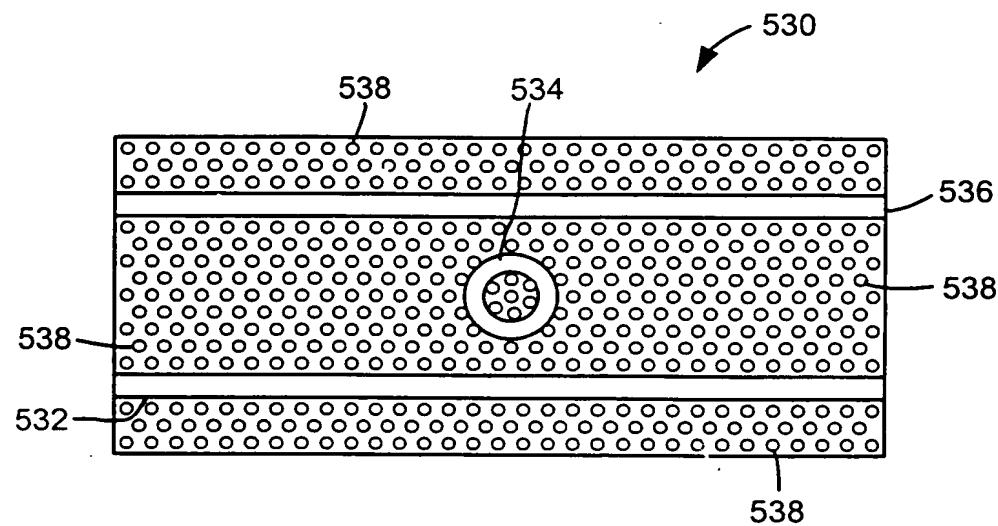


FIG. 17



Atty Docket No.: 30203/37899
Title: Optical Sensor for Measuring Physical and
Material Properties
Inventor: R. Frick
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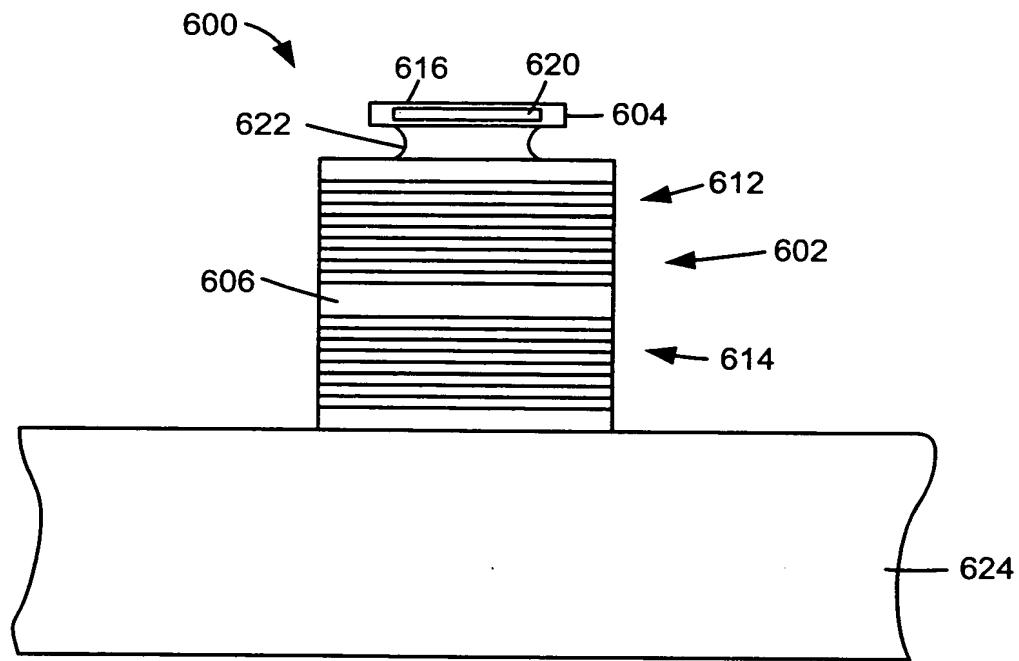


FIG. 18